Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-02-06-10** **Date: 08-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-02-18
Sample ID No	:	2018-02-06-10 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-02-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	167	396	39.6	60.4	30-70	55-90	75-100	90-100
5	600 micron	187	583	58.3	41.7	15-34	35-59	60-79	80-100
6	300 micron	177	760	76.0	24.0	5-20	8-30	12-40	15-50
7	150 micron	148	908	90.8	9.2	0-10	0-10	0-10	0-15
8	Pan	92	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-02-06-10** **Date: 08-02-18**

Sample ID No : 2018-02-06-10 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.65	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/02/2018

Lab ID	:	CP-2018-02-22-07
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-18
Sample ID No	:	2018-02-22-07 /01
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/02/2018	27/02/2018	150.32 X 150.35 X 150.32	22601	8.133	386.5	17.1	16.8
2	Drain Concrete	M20	20/02/2018	27/02/2018	150.30 X 150.39 X 150.31	22604	8.156	382.0	16.9	
3	Drain Concrete	M20	20/02/2018	27/02/2018	150.34 X 150.32 X 150.30	22599	8.142	372.9	16.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2018-02-22-07 **Date: 20/03/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahankn Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-02-18
Sample ID No	:	2018-02-22-07 /02
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/02/2018	20/03/2018	150.33 X 150.30 X 150.27	22595	8.402	508.4	22.5	23.2
2	Drain Concrete	M20	20/02/2018	20/03/2018	150.31 X 150.29 X 150.30	22590	8.413	524.1	23.2	
3	Drain Concrete	M20	20/02/2018	20/03/2018	150.35 X 150.20 X 150.27	22583	8.378	537.5	23.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-02-04** **Date: 05/03/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-18
Sample ID No	:	2018-03-02-04 /01
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	05/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	26/02/2018	05/03/2018	150.21 X 150.24 X 150.27	22568	8.324	521.3	23.1	23.4
2	Cement Concrete Pavement	M30	26/02/2018	05/03/2018	150.26 X 150.29 X 150.24	22583	8.354	535.2	23.7	
3	Cement Concrete Pavement	M30	26/02/2018	05/03/2018	150.28 X 150.20 X 150.25	22572	8.378	525.9	23.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-02-04** **Date: 26/03/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-18
Sample ID No	:	2018-03-02-04 /02
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	26/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	26/02/2018	26/03/2018	150.31 X 150.39 X 150.35	22605	8.433	764.1	33.8	33.4
2	Cement Concrete Pavement	M30	26/02/2018	26/03/2018	150.20 X 150.25 X 150.24	22568	8.345	742.5	32.9	
3	Cement Concrete Pavement	M30	26/02/2018	26/03/2018	150.21 X 150.32 X 150.22	22580	8.366	754.2	33.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-02-04** **Date: 05/03/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-18
Sample ID No	:	2018-03-02-04 /03
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	05/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	26/02/2018	05/03/2018	150.28 X 150.32 X 150.29	22590	8.365	537.6	23.8	23.4
2	Cement Concrete Pavement	M30	26/02/2018	05/03/2018	150.25 X 150.28 X 150.20	22580	8.376	505.8	22.4	
3	Cement Concrete Pavement	M30	26/02/2018	05/03/2018	150.30 X 150.35 X 150.31	22598	8.425	540.1	23.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-02-04** **Date: 26/03/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-18
Sample ID No	:	2018-03-02-04 /04
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	26/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	26/02/2018	26/03/2018	150.26 X 150.28 X 150.30	22581	8.356	742.9	32.9	32.9
2	Cement Concrete Pavement	M30	26/02/2018	26/03/2018	150.32 X 150.31 X 150.29	22595	8.412	754.7	33.4	
3	Cement Concrete Pavement	M30	26/02/2018	26/03/2018	150.26 X 150.30 X 150.24	22584	8.363	734.0	32.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/03/2018

Lab ID	:	**CP-2018-03-02-04**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-18
Sample ID No	:	2018-03-02-04 /05
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/03/2018

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/02/2018	06/03/2018	150.22 X 150.24 X 150.27	22569	8.345	492.0	21.8	22.4
2	Cement Concrete Pavement	M30	27/02/2018	06/03/2018	150.28 X 150.29 X 150.30	22586	8.367	517.2	22.9	
3	Cement Concrete Pavement	M30	27/02/2018	06/03/2018	150.31 X 150.20 X 150.25	22577	8.323	505.7	22.4	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/03/2018

Lab ID	:	**CP-2018-03-02-04**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-18
Sample ID No	:	2018-03-02-04 /07
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	27/02/2018	06/03/2018	150.26 X 150.28 X 150.27	22581	8.366	535.2	23.7	23.3
2	Cement Concrete Pavement	M30	27/02/2018	06/03/2018	150.28 X 150.29 X 150.30	22586	8.380	517.2	22.9	
3	Cement Concrete Pavement	M30	27/02/2018	06/03/2018	150.30 X 150.20 X 150.27	22575	8.367	528.3	23.4	

Note:
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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Date: 05-02-18

Lab ID	:	**CP-RW-2018-02-03-01**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-18
Sample ID No	:	2018-02-03-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	03-02-18

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	308.1	308.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	62.4	64.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	245.1	244.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.6	0.4
5	Aggregate impact value	(B/A)*100	20.3	20.7
6	Aggregate impact value (Mean of two tests)	Pecentage	20.5	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-02-03-01** **Date: 05-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-18
Sample ID No	:	2018-02-03-01/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	03-02-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
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Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig Date BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-02-03-01** **Date: 05-02-18**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of CC roads and drains in Sanitary core in ward No.04 Yelahanka Upanagara.
Agency	:	Sri.Y.B Ramesh, No.34, Down Bazar Road, Yelahanka, Bangalore-64.
Customer Reference	:	EE(YNK.D)E-PMT-13/W.O/133/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-02-18
Sample ID No	:	2018-02-03-01/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	03-02-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	302	302	2.7	97.3	95-100
22.4	2347	2649	24.1	75.9	60-80
11.2	2088	4737	43.1	56.9	40-60
4.75	2218	6955	63.2	36.8	25-40
2.36	1675	8630	78.5	21.5	15-30
0.6	642	9272	84.3	15.7	8-22
0.075	1485	10757	97.8	2.2	0-5

Note:-

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